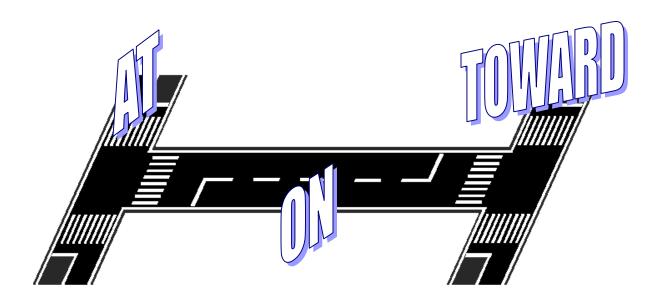
# The On/At Method: How to Describe the Location of an LRIP Project





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**What** – The On/At system is a standard way to identify the location of a roadway segment (e.g. your LRIP project). The On/At system replaces the "From/To" system that was used by WisDOT for many years. The Wisconsin Information System for Local Roads (WISLR) also uses On/At to describe the location of roadway attributes such as pavement conditions.

Who and When – Beginning with the 2004-2005 program cycle, LRIP applicants will be required to use the On/At system to identify the location of projects requesting funding through the Local Roads Improvement Program (LRIP). Program applicants will be required to use On/At to identify the location of their LRIP project in their LRIP Project Application form.

Why – First, the On/At system provides a <u>consistent</u> way to describe the location of a roadway segment. There is a need for a standard approach since WisDOT receives over 1,200 project applications during a typical LRIP cycle. The uniform approach used by the Local Roads Improvement Program is the same method used by WISLR. LRIP data will now use the same language as WISLR and will facilitate data exchanges between the two systems.

Second, the On/At system is structured so that roadway information can easily be entered into a <u>Geographic Information System</u> (GIS). GIS will provide LRIP staff with mapping and analysis tools for enhanced program management purposes.

**How** – This manual illustrates how to use the On/At method to describe the location of a roadway segment. The manual was originally developed to assist communities in describing the location of pavement ratings stored in the Wisconsin Information System for Local Roads (WISLR) and illustrates two ways to describe a roadway segment with a pavement rating of "8". While the manual discusses On/At in the context of pavement ratings, the examples illustrate how you should use On/At to describe the location of the roadway segment you propose to improve with LRIP funds.

On/At is a simple method that only takes a few minutes to introduce and can be quickly used to identify most roadway situations. There are some more difficult situations that you may come across (such as cul-de-sacs with islands) and guidance for these roadways is also provided in this manual.

The On/At method is an easy system to understand if your LRIP project begins and ends at existing intersections. Lets say you want to improve First Street between Park Street and Oak Avenue. The "On Route" (or the roadway you want to describe) is First Street, the "At Route" (or beginning point of the segment) is Park Street, and the "Towards Route" (or in this case the endpoint of the segment) is Oak Avenue.

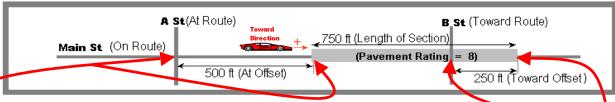
If your project doesn't begin AND end at existing intersections, "offsets" are used to describe the distances from the existing intersections. The following pages provide more detail using offsets. Please contact your county highway commissioner if you have questions on how to use On/At to describe your LRIP project.

The On/At method helps you define the location of a roadway using a standardized format. **On**, **At** and **Toward** represent the reference points on the road that locate your data. Simply put, to identify a segment of roadway, you must identify the road name, plus the start and end-points for that section.

	DEFINITIONS
On Route	The road that you will rate pavement on.
At Route	The intersection that defines where you will begin to measure.
At Offset	The distance from the <b>At Route</b> intersection to the beginning point of the
	section you wish to locate.
Toward Route	The intersection that assists in locating the endpoint of the section you
	wish to identify.
Toward Offset	The distance from the <b>Toward Route</b> intersection to the endpoint of the
	section you wish to locate.
Toward Direction	The direction going from the At Route in the direction of the Toward
Direction	Route. The Toward Direction represents the positive (+) direction for
	locating At and Toward Offset measurements (see (+) and (-) offsets
	below).
Positive Offset	An offset measured from an At or Toward route intersection is positive (+)
(+)	when it represents a distance in the <b>Toward Direction</b> .
Negative Offset	An offset measured from an At or Toward route intersection is negative (-)
(-)	when it represents distance in a direction <i>opposite</i> the <b>Toward Direction</b> .
Length	The length of the section you are locating.

# **Example A: Use of Positive Offsets**

Locate the 750-foot section of Main Street that has a pavement rating of "8".



- 1. Identify the On Route = Main Street.
- 2. Identify the At Route = "A" Street.
- Identify the Toward Route = "B" Street. (Defines the Toward Direction

# Offsets: How and When to Use Them

If the pavement rating section does not *begin or end* at an intersection, then use offsets to define the point or points where your pavement ratings begin and end. If the pavement rating section *begins* at an intersection, the **At Offset = 0**. If the pavement rating section *ends* at an intersection, the **Toward Offset = 0**.

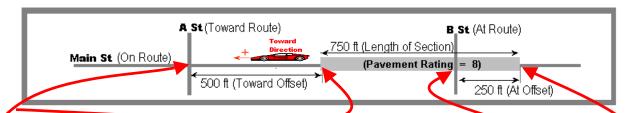
- 4. Determine the **At Offset = 500 feet.** This locates the beginning of the 8-rated pavement. It is the distance from the At Route to the beginning of the 8-rated pavement.
  - Notice that the At Offset is positive (+) since it represents distance from the At Route in the same direction as the **Toward Direction**.
- 5. Determine the Length = 750 feet. You've now successfully located the 8-rated pavement. OR-
- 6. Determine the **Toward Offset.** This is the distance from the Toward Route to the end of the 8-rated pavement **= 250 feet.**

<u>Note</u>: Use either Length or the Toward Offset to locate the end of the pavement section (i.e., Toward Offset is not necessary when you provide Length, and vise versa: if you provide Toward Offset, it is not necessary to provide Length).

# **Example B: Use of Negative Offsets**

With the On/At Method, you can measure in any direction. In Example B below, the At and Toward intersections are reversed from those in Example A. This example uses negative offsets to locate the 750-foot section of Main Street that has a pavement rating of "8".

Note: "A" Street is now the **Toward Route**; therefore, the offsets in the example below become negative since they are measured in the direction opposite the **Toward Direction**. (See steps below.)



- 1. Identify the **On Route = Main Street.**
- 2. Identify the At Route = "B" Street.
- 3. Identify the **Toward Route = "A" Street.** (This defines the positive direction of measurement + Direction |
- 4. Define and record the **At Offset = 250**. Measure the length of the 8-rated pavement from "B" Street (the At Intersection) to the start of the 8-rated pavement. *This equals -250 feet.* 
  - Notice the At Offset is negative (-) since it represents distance in the direction opposite the Toward Direction; so record the offset as -250 feet.

You can finish your measurement using either the Length, or the Toward Offset of the section.

5. Determine the length of the 8-rated pavement section (Length = 750 feet). You've now successfully located the 8-rated pavement.

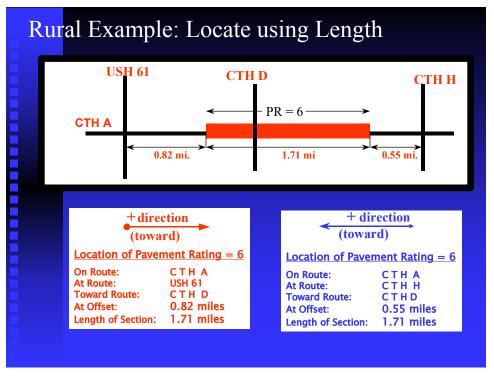
-OR-

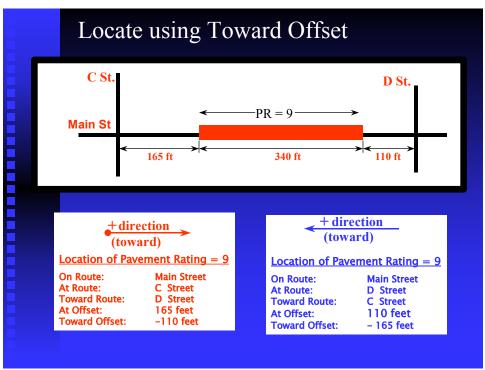
- 6. **Toward Offset:** This is the distance from the Toward Route ("A" Street) to the end of the 8-rated section of pavement. **This equals –500 feet**.
  - Notice the Toward Offset is negative (-) since it represents distance in the direction *opposite* the Toward Direction; so record the offset as -500 feet.

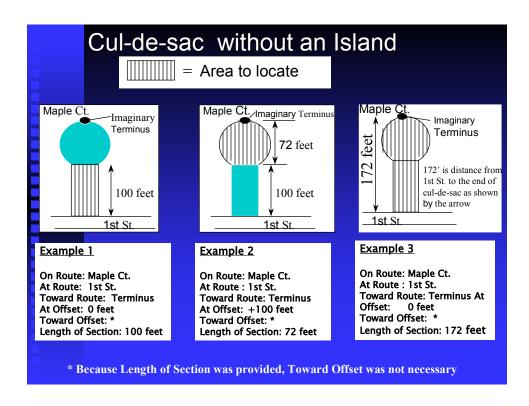
<u>Note</u>: Use either Length or the Toward Offset to locate the end of the pavement section (i.e., Toward Offset is not necessary when you provide Length, and vise versa: if you provide Toward Offset, it is not necessary to provide Length).

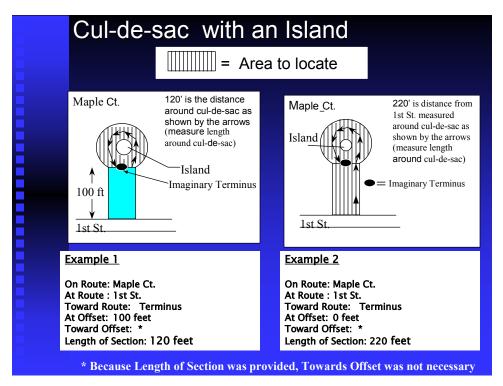
### **ADDITIONAL EXAMPLES**

The following examples show alternate methods to locate pavement rating sections using either Length or Toward Offset. Keep in mind that if you provide length, it is not necessary to provide Toward Offset, and vise versa.









	Full Name	Abbreviation
	Avenue	Ave
STANDARDIZED	Boulevard	Blvd
SIANDARDIZED	Circle	Cir
ADDDDAILAGEONIC	County Trunk	
ABBREVIATIONS	Highway	СТН
TIDDIE (HITTOTIO	Court	Ct
	Drive	Dr
	East	E
	Highway	Hwy
	Interstate	
	Highway	IH
	Lane	La
	North	N
	Northeast	NE
	Northwest	NW
	Parkway	Pkwy
	Place	Pl
	Road	Rd
	Route	Rte
	South	S
	Southeast	SE
	Southwest	SW
	Street	St
	State Trunk Highway	STH
	Terrace Trail	Terr Tr
		USH
	US Highway West	W